



RECEIVED
5775 Morehouse Drive **CENTRAL FAX CENTER**
San Diego, CA 92121
Fax: (858) 658-2502
SEP 22 2005

Facsimile Transmittal

DATE: September 22, 2005
TO: Commissioner for Patents
ATTN: Decision and Certificate of Correction
Branch of the Patent Issue Division

FAX NUMBER: (703) 746-4060

FROM: Jae-Hee Choi, Reg. No. 45,288, Attorney for Applicant
Direct Telephone No.: (858) 651-5469
Attorney Docket No.: 990485

Total Number of Pages Sent: 4 (including this transmittal cover sheet)

FILING BY FACSIMILE:

ATTORNEY DOCKET NO.: 990485 **JHC/KL**

ENCLOSED ARE:

1. Letter to make error of record (2 pages)
2. Marked up copy of page 1 of Patent No. 6,944,765 (1 page)

APPLICANT: Rose et al
ASSIGNEE: QUALCOMM Incorporated
SERIAL NO.: 09/468,557
PATENT NO.: 6,944,765
ISSUED: September 13, 2005
FOR: METHOD OF AUTHENTICATING ANONYMOUS USERS WHILE REDUCING POTENTIAL FOR
"MIDDLEMAN" FRAUD

Please contact Kate Lane at (858) 658-2047 if all pages do not transmit.

Special Instructions: THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL TO WHOM IT IS ADDRESSED AND CONTAINS INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately. Thank you!

Attorney Docket No. 990485

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED
CENTRAL FAX CENTER

SEP 22 2005

Patent No. 6,944,765

For: METHOD OF AUTHENTICATING
ANONYMOUS USERS WHILE
REDUCING POTENTIAL FOR
"MIDDLEMAN" FRAUD

Issued: September 13, 2005

Assignee: Qualcomm, Incorporated

LETTER TO MAKE ERROR OF RECORD

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

An error of a typographical nature has occurred through the fault of the U.S. Patent and
Trademark Office as more fully described below.

CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8(a))

I hereby certify that this correspondence is, on the date shown below, being:

MAILING

☐ deposited with the United States Postal Service
with sufficient postage as first class mail, in an
envelope addressed to the Commissioner for
Patents, P.O. Box 1450, Alexandria, VA 22313-
1450 on

Depositor's Name: _____
(type or print name)

Signature: _____

FACSIMILE

☒ transmitted by facsimile to the Patent and
Trademark Office on September 22, 2005

Depositor's Name: Kate Lane
(type or print name)

Signature: Kate Lane

Attorney Docket No. 990485


The exact page and line number where the error occurs in the issued patent are:
At page 1, first column, (54), in the title, please replace "AUTHENTICATION" with
--AUTHENTICATING--. The correct title should read as follows:

**METHOD FOR AUTHENTICATING ANONYMOUS USERS
WHILE REDUCING POTENTIAL FOR "MIDDLEMAN" FRAUD**

According to 37 C.F.R. 1.322 there is no fee for making this error of record. If, however,
it is determined that fees are owed, Applicants hereby authorize that such fees be charged to
Deposit Account No. 17-0026.

Respectfully submitted,

Dated: September 22, 2005

By: 
Jae-Hee Choi, Reg. No. 45,288
(858) 658-6892

QUALCOMM Incorporated
Attn: Patent Department
5775 Morehouse Drive
San Diego, California 92121-1714
Telephone: (858) 658-5787
Facsimile: (858) 658-2502



US006944765B1

(12) **United States Patent**
Rose et al.

(10) Patent No.: **US 6,944,765 B1**
(45) Date of Patent: **Sep. 13, 2005**

Authenticating

(54) **METHOD OF AUTHENTICATING ANONYMOUS USERS WHILE REDUCING POTENTIAL FOR "MIDDLEMAN" FRAUD**

(75) Inventors: Gregory G. Rose, San Diego, CA (US); Philip M. Hawkes, Burwood (AU)

(73) Assignee: Qualcomm, Inc., San Diego, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: 09/468,557

(22) Filed: Dec. 21, 1999

(51) Int. Cl.⁷ H04L 9/00

(52) U.S. Cl. 713/181; 713/188; 713/152; 713/153; 713/168; 380/30; 380/201; 380/251; 380/262; 705/51; 705/57; 705/67

(58) Field of Search 713/181, 188, 713/152, 153, 168; 380/30, 251, 201, 262; 705/51, 67, 57

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,241,599 A * 8/1993 Bellovin et al. 713/171
5,311,596 A * 5/1994 Scott et al. 380/33
5,724,425 A * 3/1998 Chang et al. 705/52
5,768,382 A * 6/1998 Schneier et al. 380/251
5,796,952 A * 8/1998 Davis et al. 709/224
5,841,870 A * 11/1998 Fierres et al. 713/156
5,917,615 A * 6/1999 Reifman et al. 358/468
5,970,143 A * 10/1999 Schneier et al. 713/181
6,141,010 A * 10/2000 Hoyle 345/854

OTHER PUBLICATIONS

Menezes, Alfred, Paul van Oorschot, and Scott Vanstone, The Handbook of Applied Cryptography, 1996, pp. 402-403.*

Merkle, Ralph C. "Secure Communications Over Insecure Channels" Communications of the ACM 21(4): 294-299 (1978).

Rivest, et al. "Time-Lock Puzzles and Timed-Release Crypto" pp. 1-8 (Feb. 21, 1996).

Back, Adam "Hash Cash-A Partial Hash Collision Based Postage Scheme" pp. 1-5. (printed from website www.cypherspace.org/~adam/ on Apr. 25, 2000).

* cited by examiner

Primary Examiner—Andrew Caldwell

Assistant Examiner—Paul Callahan

(74) Attorney, Agent, or Firm—Phil Wadsworth; Sandip (Micky) S. Minhas; Jae-Hee Choi

(57)

ABSTRACT

A method of authenticating anonymous users while reducing potential for "middleman" fraud includes the step of constructing a puzzle in response to information received from a software user. The puzzle includes the received information. The puzzle is sent to the user by a software provider. The user solves the puzzle and returns the solution to the provider. The puzzle includes a portion of a value derived from an encrypted "cookie" and an exponentiation of the derived value. The cookie includes information about the user.

3 Claims, 1 Drawing Sheet

